EXHIBIT F

Declaration of Philip P. Mann

Case No. 21-CV-0817-TSZ

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1
 2
 3
                  IN ARBITRATION PROCEEDINGS BEFORE
 5
                                  JAMS
 6
      BUNGIE, INC., a Delaware
      corporation,
 7
                                              CERTIFIED COP
                 Claimant,
 8
                                           No. 5160000075
           v.
 9
      AIMJUNKIES.COM, a business of
      unknown classification; PHOENIX
10
      DIGITAL GROUP, LLC, an Arizona
11
      limited liability company;
      JEFFREY CONWAY, an individual;
      DAVID SCHAEFER, an individual;
12
      JORDAN GREEN, an individual;
      and JAMES MAY, an individual,
13
14
                 Respondents.
15
                 DEPOSITION UPON ORAL EXAMINATION OF
16
                         JORDAN WILLIAM GREEN
17
        CONTAINS CONFIDENTIAL BUSINESS INFORMATION SUBJECT TO
                           PROTECTIVE ORDER
18
19
                            October 12, 2022
20
                               9:25 a.m.
2.1
                Taken at the instance of the Claimant
2.2
23
24
                Stephanie C. Rhinehart, CCR, CSR, RPR
     Certified Court Reporter and Certified Shorthand Reporter
     WA License No. 22013531
                                        OR License No. 22-0014
25
```

1	Q.	Whom are you advising?
2	A.	I'm not personally advising anyone.
3	Q.	Who is advising someone?
4	A.	I believe that the the parties involved in the
5		purchase, Andreas Banek and Blome Entertainment, were
6		told that, if they needed anything from us or needed
7		any questions answered, they could reach out to
8		Mr. Schaefer.
9		(Reporter requests clarification.)
10	Q.	BY MR. RAVA: Have you had any interaction yourself,
11		personally, with Andreas Banek?
12	A.	No.
13	Q.	Have you had any personal interaction with anyone else
14		associated with or anyone at all associated with
15		Blome?
16	A.	I don't believe so.
17	Q.	Were you personally paid for the sale of AimJunkies?
18	A.	I received compensation, yes.
19	Q.	When?
20	A.	In the process of the sale.
21	Q.	Do you have a recollection of when that was?
22	A.	Not exactly.
23	Q.	How did you receive it?
24	A.	I received a crypto payment.
25	Q.	Do you have a crypto wallet?
i		

- Page 71
- 1 A I personally have a crypto wallet, yes.
- 2 Q. Do you have more than one personal crypto wallet?
- 3 A. No.
- 4 Q. And in what currency did you receive this payment?
- 5 A. Bitcoin.
- 6 Q. And how much Bitcoin did you receive?
- 7 A. I don't remember.
- 8 Q. Was it more than the equivalent of \$10,000 in Bitcoin?
- 9 A. I don't believe so, but I'm not sure.
- 10 Q. Were you involved in negotiating the price for the sale
- of AimJunkies?
- 12 A. No.
- 13 Q. Who was?
- 14 A. Mr. Schaefer.
- 15 Q. When did you first consider selling AimJunkies?
- MR. MANN: Object to the form.
- 17 Q. BY MR. RAVA: Let me ask that again.
- When was the prospect of the sale of AimJunkies
- 19 first raised to you?
- 20 A. We've had offers to buy the website for years. So the
- 21 prospect of selling the website has been a topic that
- has come up over -- over the years.
- 23 Q. Did you seriously consider selling it before, selling
- 24 it to Blome?
- 25 A I would say that I entertained the offer previously. I

1		Page 72 feel like that's a fair assessment.
2	Q.	Do you recall any other offers that were made?
3	A.	Not off the top of my head. I don't remember.
4	Q.	Were you involved in those in those efforts?
5	A.	Not always.
6	Q.	Sometimes?
7	A.	Can you define "involved"?
8	Q.	Or engaged in communications with the counterparty?
9	A.	I generally didn't engage in the communication with the
10		counterparty.
11	Q.	Who would do that?
12	A.	Mr. Schaefer.
13	Q.	Do you recall an offer from CoDHacks.ru?
14	A.	The website sounds familiar.
15	Q.	How are you aware of that website?
16	A.	I believe it jogs my memory. I'm not sure.
17		MR. RAVA: Excuse me for a minute. Maybe we
18		could go off the record for three minutes.
19		(Discussion off the record.)
20	BY N	MR. RAVA:
21	Q	Mr. Green, I'm just handing you what the court reporter
22		has marked as Exhibit Number 2. Have a look at,
23		particularly, the second page of this document.
24		Have you seen this document before?
25	A.	I don't know that I've seen this document before, but I

Jordan William Green-Confidential 10/12/2022

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Page 106
                                                                                                                            Page 107
 1
          see any reference of closing conditions in Exhibit 4.
                                                                    1
                                                                        Q.
                                                                             BY MR. RAVA:
                                                                                           You're not aware of any legal issues
 2
    Q. Do you have an understanding of what the current
                                                                    2
                                                                             that need to be resolved with respect to the sale?
 3
          process -- what the current status of the -- the
                                                                    3 A. No, I'm not aware.
 4
          transition, as between Aim- -- Phoenix Digital and the
                                                                    4
                                                                        Q. As far as you know, it's complete?
 5
                                                                    5
          buyer is?
                                                                        A. Yes.
 6
                   MR. MANN: Object to the form of the
                                                                    6
                                                                                       MR. RAVA: I think now would probably be a
          question.
                                                                             good time to take a lunch break.
 8
     Q. BY MR. RAVA: Let me try to reframe that.
                                                                    8
                                                                                       MR. MANN: Sure.
 9
    A.
                                                                    9
                                                                                            (Break in proceedings at 12:42 p.m.)
10
    Q.
         Do you understand what the current status is of the
                                                                   10
                                                                        BY MR. RAVA:
11
          sale of AimJunkies by Phoenix Digital?
                                                                   11
                                                                        Q. Mr. Green, I'd like to talk about the process by which
    A. I believe that the website and the assets described
                                                                   12
12
                                                                             you developed the cheats that you developed and then
13
          have been sold and transferred. And as far as I'm
                                                                             used on Velocity Cheats.
                                                                   13
14
          aware, we are providing the agreed-upon services to
                                                                   14
                                                                       A.
                                                                            Okay.
15
          continue providing the -- the infrastructure needed to
                                                                   15
                                                                        Q. Okay. So I want to just sort of talk through it on a
16
          run it in the meantime.
                                                                   16
                                                                             step-by-step basis. And, maybe, using as an example --
17
    Q. Are there any legal transitions still undergoing?
                                                                   17
                                                                             as an example, the first one you mentioned was for
18
                   MR. MANN: Object to the form of the
                                                                   18
                                                                             Modern Warfare that we talked about.
19
                                                                   19
                                                                       A.
                                                                             Okay.
          question.
20
                   THE WITNESS: Not that I'm aware.
                                                                   20
                                                                        Q.
                                                                             So what would you first do when you were trying to
21
    Q.
         BY MR. RAVA: What would they be, if there were?
                                                                   21
                                                                             develop a cheat like that one?
22
                   MR. MANN: Object to the form the question.
                                                                   22
                                                                       A. That cheat in particular, I had a background knowledge
23
          Assumes matters not in evidence.
                                                                   23
                                                                             on the game engine, how it worked -- which is
24
                    THE WITNESS: What would they be, if any? I
                                                                   24
                                                                             indispensable. It's valuable to know how it works if
25
          don't know what they would be.
                                                                   25
                                                                             you're going to figure it out; right?
                                                        Page 108
                                                                                                                            Page 109
 1
               But let's say the newest Call of Duty game came
                                                                      A. To make ESP work?
                                                                    1
 2
          out -- Modern Warfare 2 in 2009, or whenever it came
                                                                    2
                                                                        O. To make ESP work.
 3
          out. I would have bought the game because I was
                                                                        A. The basics for -- to make ESP work -- and these are
                                                                    3
 4
          playing it. And I would have started by trying to find
                                                                    4
                                                                             actually more or less the basics to make, like, the
 5
          the things that are recognizable to me, the different
                                                                    5
                                                                             entire -- a lot of features work -- is you need to know
 6
          structures that I know that are part of the game
                                                                             where you are in the game space. It's like a 3D graph,
                                                                    6
                                                                    7
          engine, because they always use Quake 3 for their game
                                                                             essentially. You need to know where you are; and you
 8
                                                                    8
          engine. So I guess I start by trying to apply what I
                                                                             need to know where the enemy is. And then you need to
 9
                                                                    9
                                                                             know which way you're looking. The way that this is
          know about the last game that I've seen on that game
10
                                                                   10
          engine to the new one.
                                                                             described in the game engine is by the camera.
                                                                   11
11
    Q. And are you doing that while playing the game?
                                                                                  So part of your player presence in the game is
12
          Am I effectively reverse engineering and understanding
                                                                   12
                                                                             your player's camera, and that's the window you view
                                                                   13
13
          the game while playing it is what you're asking?
                                                                             through. So you need to find the camera structure,
          Is the game -- well, is the game running while you are
                                                                   14
                                                                             which is essentially -- if memory serves, it's three
14
    Q.
                                                                   15
15
          trying -- while you are reverse engineering it?
                                                                             vectors, which are essentially four working variables
16
          It depends on the approach you're taking. But, yes,
                                                                   16
                                                                             per vector. So it's a bunch of numbers. It's also
17
          that is -- that is one of the ways that you could see
                                                                   17
                                                                             very generic. Almost every game I've ever looked at or
18
          what's going on -- is by observing what the program's
                                                                   18
                                                                             am aware of uses almost exactly the same underlying
19
                                                                   19
          doing in real time.
                                                                             math. Once you take away all the layers of
    Q. And what exactly are you looking for? And let's just
20
                                                                   20
                                                                             abstraction, it's the same basic concept.
21
          take one feature, for example. Let's take the ESP
                                                                   21
                                                                                  So if you know where you are, where you're
22
          feature that we discussed earlier.
                                                                   22
                                                                             looking, and where the other player is, then you have
23
    Α.
         Okav.
                                                                   23
                                                                             everything that you need to do a World to Screen
```

24

25

What exactly would you be looking for in the game

24

25

0.

engine structures?

calculation and say, "Okay. I know that this person's

in 3D space, but I want to know, do they exist on my 2D

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Page 110
                                                                                                                             Page 111
 1
          camera view?" If they do, I can run it through a World
                                                                    1
                                                                              search memory for a change.
 2
                                                                     2
          to Screen function, which is a very publicly talked
                                                                                   And then, if they move back -- "Okay. Well, okay.
 3
                                                                     3
          about function in game development, and it will give me
                                                                              Now let's look for a value that decreased." And then
 4
          the screen coordinates of where this person might be on
                                                                     4
                                                                              you sprinkle in some of the "Okay. Well, don't move,
 5
          my screen. And then, from there, since you have screen
                                                                     5
                                                                              and let me just search for a value that didn't change."
 6
          coordinates, you can essentially draw a box around them
                                                                     6
                                                                              So you can start to identify this value is describing
 7
          or put an icon -- or their name or whatever information
                                                                     7
                                                                              where this person is moving in this 3D game arena. And
 8
          you want to display to the user.
                                                                     8
                                                                              so now I know for that instant of the game, for that
                                                                    9
 9
     Q.
          So to figure out where you are or where the other
                                                                              player in the game, I know where his position's stored.
10
                                                                    10
          people are, you are looking at what?
                                                                              So then, from there, are you familiar with the concept
11
    A. There's a few ways to do this. I have reverse
                                                                    11
                                                                              of a pointer?
12
          engineered games where I end up looking at the game
                                                                    12
                                                                        Q. No. Not -- I mean, generally, but not -- I hesitate to
13
          code to determine how it's interfacing and storing
                                                                   13
                                                                              say that I'm familiar with it in the context that
14
          these variables.
                                                                   14
                                                                              you're about to use it. So please describe it for me.
15
               I've also done it the hard way, where I literally
                                                                   15
                                                                        Α.
                                                                              So in computers -- I'm going to stick with 32-bit
16
          sit there in-game with someone else and I say, "Okay.
                                                                    16
                                                                              computers. I'm not going to talk about 64-bit just to
17
          Move three feet to the right." And maybe, at this
                                                                    17
                                                                              keep it real simple. Everything is stored on -- in
18
          point, I've already found my position. So I know that,
                                                                   18
                                                                              4-byte chunks. So a pointer is a 4-byte piece of
19
                                                                   19
          if they line themselves up this way and they move this
                                                                              memory that stores an address to another piece of
20
                                                                    20
          direction, it's largely going to be only changing one
                                                                              memory. So it's saying, "Hey, if you know what's in
21
                                                                    21
          of their three coordinate axes in the 3D space. And
                                                                              here, you can then follow that address and say, 'Okay.
22
          then I can search -- "Okay. Well, if I know that if
                                                                    22
                                                                              What's at that?'"
23
          they move that direction, right, that value goes up for
                                                                    23
                                                                                   So what I'm doing then is -- I know that this game
24
          me. Well, then their value should go up." So I search
                                                                    24
                                                                              is object-oriented. It uses pointers to store player
25
          for a value that has increased using a program that can
                                                                    25
                                                                              data and it uses that to organize its data. So I know
                                                         Page 112
                                                                                                                             Page 113
 1
          that there's a pointer somewhere to the -- to where
                                                                    1
                                                                              component, and then roll. And so those are the three
 2
                                                                              components of a view matrix. But the camera view
          this player's data's stored. The game has access to it
                                                                     2
 3
          somehow. So then I can go and search -- do a pointer
                                                                     3
                                                                              matrix doesn't say the position of the camera. It's
 4
          search for all the values from that address, 200 values
                                                                     4
                                                                              not always included. It's sometimes -- it's assumed
 5
          up. So I'm looking for any other memory location that
                                                                     5
                                                                              it's just the position of the player.
 6
          holds the value of those addresses.
                                                                             I see. Then, once you have those things -- then what
                                                                     6
 7
               And through brute force -- and I've done this
                                                                     7
                                                                              do you do?
 8
          successfully several times -- you can completely
                                                                    8
                                                                        A. Those are the basic inputs to a World to Screen
 9
                                                                    9
                                                                              function.
          understand the structure of a game without ever looking
10
          at code. And I've created cheats completely by doing
                                                                    10
                                                                             Okay. Tell me about this World to Screen function.
                                                                        0.
11
          that. But that's just one method, yeah.
                                                                    11
                                                                        Α.
                                                                              So I don't have any reason to believe that this
12
         But that method involves -- you are accessing the
                                                                    12
                                                                              wouldn't be true: Every game in existence that models
     Q.
13
          memory of the game in order to figure out what values
                                                                   13
                                                                              a 3D world on a 2D screen has some sort of World to
14
          change when or stay the same?
                                                                    14
                                                                              Screen functionality, and the algorithms are almost
15
          Accessing the memory of the process.
                                                                   15
                                                                              identical. So for example, the World to Screen
    A.
16
          Right. Okay. So once you have those things, you
                                                                    16
                                                                              function on this Modern Warfare 2 game that we're
17
          understand where you are, where the enemy is, the
                                                                    17
                                                                              talking about, when Modern Warfare 3 came out, I didn't
18
                                                                    18
          camera angles --
                                                                              have to change that code at all. In fact, that code is
19
                                                                    19
         Mm-hmm.
                                                                              code that I had adapted from some public "how to build
    Α.
20
    ٥.
          -- or camera structure?
                                                                    20
                                                                              a game" code that I had found, "how to do World to
21
         It's referred to as a "view matrix."
                                                                    21
                                                                              Screen," you know. And I had maintained that code.
    Α.
                                                                    22
22
    Q. Okay.
                                                                              And that's the -- that's just a tool in the tool kit of
23
         But it's a description of -- if you were to take your
                                                                    23
                                                                              the cheat.
24
          camera and look down, there's a component that handles
                                                                    24
                                                                                   And then, let's say I then take that cheat and
```

25

your -- your vertical component, the horizontal

25

make it work on Battlefield: Bad Company 2. That's a

Jordan William Green-Confidential 10/12/2022

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Page 114
                                                                                                                           Page 115
 1
         different game. It's a Battlefield game, not a Call of
                                                                    1
                                                                             something. So then what do you do? Then you have
 2
                                                                    2
         Duty game. They're made by different developers;
                                                                             what? A chunk of code --
 3
                                                                    3 A. Yeah.
         they're different games engines entirely. But the
 4
                                                                       Q. -- that does that? What do you do?
         World to Screen function only takes a little bit of
                                                                    4
 5
         tweaking. Sometimes it's -- it's inverting the sign of
                                                                    5
                                                                       A. So the -- there's, again, multiple ways to do this.
 6
         a specific part of the calculation. So, like, for
                                                                    6
                                                                             The way that these internal cheats work is they're
 7
         example, it might tell me they're right in front of me
                                                                    7
                                                                             built as what's called a DLL file.
 8
         when they're directly behind me. Well, obviously, I
                                                                    8
                                                                       Q. DLL?
 9
         need to invert that part of it to where, when they're
                                                                   9
                                                                       Α.
                                                                            Yes.
10
         behind me, it says that their behind me; right? And if
                                                                   10
                                                                       Q.
                                                                            Okay.
11
         they're in front of me, it gives me the correct
                                                                   11
                                                                       Α.
                                                                            There are three types of executable files on a Windows
12
                                                                   12
         position. So the World to Screen function, in my
                                                                             operating system. And these three types are actually
13
         experience, can be adapted to any -- any 3D to 2D
                                                                   13
                                                                             mirrored in some -- their functional equivalents are
14
         conversion like that.
                                                                   14
                                                                             seen on every operating system -- Linux, Mac...
15
    Q. What other steps do you then take as you're trying to
                                                                   15
                                                                                  But on Windows, it's three versions of the same
16
         get this ready to be functional and distributable?
                                                                   16
                                                                             file format. You have an EXE, a DLL, and a DOTSYS
17
    A. A lot of times, you need a game -- well, functional and
                                                                   17
                                                                             file. An EXE is as normal program. When you run it,
18
         distributable -- can you repeat the question one more
                                                                   18
                                                                             Windows will start you up a process, load that program
19
                                                                   19
                                                                             into it, and say, "Here's your little box that you can
                                                                   20
20
    Q.
         So you've -- we're walking through the process of you
                                                                             exist in."
21
                                                                   21
         developing a cheat here. And you say you've got the
                                                                                  A DLL file is a dynamic-link library. And what
22
         three things. You've got the three things figured out.
                                                                   22
                                                                             that is is that's a set of functionality that a program
23
         You run through a World to Screen function, and now
                                                                   23
                                                                             can import and use. So it can say, "Hey" -- like, for
24
         you're able to -- as you say, draw, put an arrow on it,
                                                                   24
                                                                             example, most games use, like, DirectX to render onto
                                                                   25
25
         or put the guy's name or put the box around it or
                                                                             the screen using the graphics card. It's an
                                                        Page 116
                                                                                                                           Page 117
 1 accelerated graphics API from Windows. So they'll load
                                                                             way I've done it is, in order to facilitate that "not
                                                                   1
 2 the DirectX functionality, which are Windows system
                                                                   2
                                                                             touching the disk part" that I brought up earlier, we
 3 binaries. They'll say, "Hey, I need to load that."
                                                                    3
                                                                             use a DLL injection method called "manually mapping,"
 4 And so that loads that code into the system, and it's
                                                                             which is recreating the functionality of Windows
                                                                    5
 5 then available for the program to use.
                                                                             loading that DLL manually.
         And then a DOTSYS file is a driver file. It's
                                                                    6
                                                                            Why do you do that?
   much like a DLL, but it's loaded into the Windows
                                                                    7
                                                                       A.
                                                                             Because if you were to ask Windows to load the DLL, the
 8 kernel. So the cheats that I've created are created as
                                                                   8
                                                                             only way that Windows allows you to load a DLL is by
 9 a DLL file. And there's a method that is well-known in
                                                                   9
                                                                             supplying a file path. And that would -- because
10 research and documented called DLL injection. And so
                                                                   10
                                                                             that's the only way is -- to supply a path on the disk,
                                                                   11
11 the only difference between a normally loaded DLL and a
                                                                             you would have to put the DLL on the disk for it to be
12 DLL injection is a DLL that was loaded through an
                                                                   12
                                                                             loaded into the game -- or into the process.
13 external source -- so it wasn't that the programs said,
                                                                   13
                                                                       Q. All right. So now you've got your DLL injection file?
14
    "Hey, I need this to work"; it's that the DLL was
                                                                   14
15 loaded by something else.
                                                                   15
                                                                       Q.
                                                                            And is that the file that is -- that the loader
16
         And this happens all the time. So you've got,
                                                                   16
                                                                             eventually loads up to a customer's -- to -- for a
                                                                   17
17 like, Steam, Discord, even OBS will have an in-game
                                                                             customer?
18 component that will load to where you can hit, like, a
                                                                   18
                                                                       Α.
                                                                            Vec
19 key combination on your keyboard and bring up the chat
                                                                   19
                                                                            And that DLL injection file resides where?
                                                                       0.
20 window and talk to your buddies or join their game or
                                                                   20
                                                                       Α.
                                                                            In the case of Velocity Cheats, it resided on my server
21 whatever functionality they want to bring into the
                                                                   21
                                                                             for Velocity Cheats.
                                                                            In the case of the cheats offered by Phoenix Digital,
22 game. And that becomes a part of the game. And it
                                                                   22
                                                                       Q.
23 renders on the screen.
                                                                   23
                                                                             from AimJunkies.com, where did those -- where did the
24
         So much like that, that's how the cheats load.
                                                                   24
                                                                             files, the DLL injection or whatever they were -- where
```

25

they did they reside?

25 The only difference is that we -- in my experience, the

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Page 118
                                                                                                                            Page 119
 1
    A.
          As far as I'm aware, with the loader -- the third-party
                                                                    1
                                                                             So for example, like, I told you about that data
 2
          loader, it gave a couple options. They could reside on
                                                                        section in the executable file. Let's say that your
 3
          the server stored on the AimJunkies server, or they
                                                                    3
                                                                        data section is 2,000 bytes long. But on the file, it
 4
          could specify, like, an API URL where the cheat could
                                                                        isn't 2,000 bytes long because it's a runtime data
 5
          be loaded from an external service if the coder chose
                                                                        section. So it is describing data that is not supposed
                                                                    5
 6
                                                                        to be included in the file but gets generated or used
 7
         Did -- so were some cheats available on -- from an
                                                                        at runtime. So in reality, the compiler can make the
 8
          AimJunkies server?
                                                                        data section on a disk 200 bytes long. Because that's
 9
    A.
                                                                        the only thing that needs to be there when the program
                                                                        starts up. But when Windows loads the file, it creates
10
    Q.
          So why -- sorry. Explain to me why, again, it's
                                                                   10
11
                                                                        the space for the 2,000 bytes and sets it all to zero,
          important to avoid touching the disk so that you're
                                                                   11
12
          doing the manual mapping bit with the DLL -- with
                                                                   12
                                                                        initializes it.
13
          that --
                                                                   13
                                                                             And so that -- by doing that -- and, also, when
14
   A. So when a DLL file or any executable file is on-disk,
                                                                   14
                                                                        you load a file into memory, the DLL file, it can be
15
          it exists in a different format than when it's loaded
                                                                        relocatable, which means it can load a bunch of
16
          into memory. So these are the differences between,
                                                                        different addresses, potentially. It doesn't care where
17
          like, the file space and the virtual address space in
                                                                   17
                                                                        it's loaded. So modifications will be needed to be
18
          the process. And what this means is there's --
                                                                        made to final by Windows -- this is all built in -- to
19
          remember I told you about those sections of the file?
                                                                   19
                                                                        relocate the file to that new place so that, when you
    Q. Right.
                                                                        call this function, it actually calls the function
20
21
    A. Those aren't modified much when the DLL or the program
                                                                   21
                                                                        instead of just assuming that it's where it could be,
22
          is loaded. But they get moved from being right butted
                                                                   22
                                                                        but it's not.
23
          up against each other in the file to moved out into
                                                                   23
                                                                             And so all of that lends a layer of assumed
24
          their executable address space. And they end up --
                                                                        security, maybe security through obscurity to the
25
          there's gaps that are created on purpose.
                                                                        cheat, because the file that you can actually inject no
                                                        Page 120
                                                                                                                            Page 121
          longer exists. It's never existed in a whole form on
                                                                             So you get around that.
 1
                                                                    1
          the user's PC, essentially. And then, also, if we
 2
                                                                    2
                                                                                  But you also create things that are bigger red
 3
          dropped it to disk, they could just copy the file. And
                                                                    3
                                                                             flags than a random module that's loaded, like the fact
 4
          then it would be up to any protection or DRM,
                                                                    4
                                                                             that you just created an allocation of memory that has
 5
          essentially, built into the file -- into the cheat
                                                                    5
                                                                             read/write and execute permissions. And that's not
 6
          itself to protect itself.
                                                                             something you usually see in a normal running program.
                                                                    6
 7
                                                                    7
     Q.
          So it's a self-security mechanism?
                                                                                  So there's artifacts that are created. There's
 8
                                                                    8
    A. Essentially.
                                                                             upsides and downsides to manually -- manual map.
 9
                                                                    9
                                                                             It's not a perfect solution. It's not the one-shot
    Q. And an "avoid detection" mechanism or avoid -- yeah --
10
                                                                   10
    A. I would -- I would be hesitant to call it an "avoiding
                                                                             bypass.
          detection" mechanism. I imagine that was one of the
                                                                   11
11
                                                                             Okay. Would you do other -- would you add other
12
          original purposes of whoever came up with the idea to
                                                                   12
                                                                             features that would assist with the bypass?
13
          manually map. But at this point, manually mapping is
                                                                   13
                                                                             For the version of the cheat that I'm distributing?
                                                                       Α.
14
          not a way to get around any -- any anti-cheat that
                                                                   14
                                                                        Q.
15
          wasn't programmed by a very small developer who doesn't
                                                                   15
                                                                        A. No. I have directly and aggressively bypassed the
16
          know what they're doing.
                                                                   16
                                                                             anti-cheats before, but I never distributed that
17
    Q. Okay. So does it have ways to get around an
                                                                   17
                                                                             technology.
18
          anti-cheat, then?
                                                                   18
                                                                        Q. Did Phoenix Digital?
19
   A. Does what?
                                                                   19
                                                                        A. I believe that there were technologies that were
20
    Q. Does the method that you described with the DLL
                                                                   20
                                                                             contracted for that would -- there was never a
21
          injection file?
                                                                   21
                                                                             technology that was intentionally developed to bypass
22
         It -- so when you inject a DLL -- or, like, when you
                                                                   22
                                                                             any specific anti-cheat.
   A.
23
          load a DLL the right way -- there are artifacts that
                                                                   23
                                                                        Q. How do you know that?
24
          are created, like the fact that, in the loaded module
                                                                   24
                                                                             Because I feel like the mark that I had on this company
```

25

that's in the process, it'll be less -- its file path.

25

during the time when I was a cheat developer and when I

Jordan William Green-Confidential 10/12/2022

```
Page 123
                                                         Page 122
 1
          created these things, my ethos was to not create a
                                                                    1
                                                                             protections. All I did was identify that "I think
 2
          bunch of waves, not -- not be noisy on the user system
                                                                    2
                                                                              they've got a signature on me. Let me change some
 3
          and try to evade rather than bypass.
                                                                     3
                                                                             stuff and see if my detection goes away." That's one
 4
     Q. What's the difference between evading and bypassing?
                                                                     4
                                                                             way to do it.
 5
          So in my opinion, bypassing is, like -- let's take a --
                                                                    5
                                                                                  It's also possible -- and I've done this before --
     Α.
 6
          what's a good example? Back in the day, Battlefield
                                                                    6
                                                                             to -- you just take apart the anti-cheat to figure out
 7
          used an anti-cheat called Punk Buster from a
                                                                    7
                                                                             how it works. And it's possible to create a full
 8
          now-defunct company called Even Balance. They had
                                                                    8
                                                                             bypass that hooks in and completely disables the
 9
          signature scans. I brought those up.
                                                                    9
                                                                              anti-cheat. But that's rather noisy, you know.
10
                                                                    10
               And anti-cheats -- generally, one of the most
                                                                             That's -- that's like robbing a bank by kicking down
          basic things an anti-cheat will do is it will implement
11
                                                                   11
                                                                              the front door and starting to shoot the place up. You
12
                                                                    12
          signature scans, just like an antivirus. And so it's
                                                                             know, it's very -- if you don't get every -- if you
13
          looking for known patterns that are known to be unique
                                                                   13
                                                                             don't defeat every security measure, you're going to
14
          to cheats that are -- and then the preface here is that
                                                                   14
                                                                             get caught.
15
          they have to know it exists, which is part of the
                                                                    15
                                                                                  So, you know, while -- when I first got started
16
          reason why, in the antivirus market, you've noticed
                                                                    16
                                                                              cheating, people would be distributing these cheats
17
          that they've gone to these heuristic detections.
                                                                    17
                                                                              that had full bypasses. "Oh, Punk Busters" -- well,
18
          Because a signature scan, you have to know what you're
                                                                   18
                                                                             how long does that last? You know, is there any
19
                                                                    19
          looking for in order to find it.
                                                                             lifetime to that? Where, if they just don't know I
20
                                                                    20
               Well, the thing is -- let's say they got a
                                                                             even exist and they can't find me, that's not my
21
          signature on my cheat. This happened to me when I was
                                                                    21
                                                                             problem; that's theirs.
22
          playing Battlefield 2 a couple times. Well, if I can
                                                                    22
                                                                             Is it possible to develop a cheat for a game without
                                                                        0.
23
          find a way to change that signature, then they no
                                                                    23
                                                                             having a copy of the game?
24
          longer have that detection on me. So I didn't go in
                                                                    2.4
                                                                        A. I would say it's possible. It would be difficult, and
25
          and hack the anti-cheat. I didn't go in and bypass
                                                                    25
                                                                             you'd be leveraging a lot of public sources to do so.
                                                         Page 124
                                                                                                                            Page 125
          Someone else would have to have a copy of the game?
                                                                             game. I want to have some memory to call my own." And
 1 Q.
                                                                    1
 2
    Α.
                                                                    2
                                                                             then you use that memory to manually map in the DLL.
 3
     Q. And someone else would have to be providing information
                                                                    3
                                                                                  So this is the process that Windows does behind
 4
          about that?
                                                                     4
                                                                              the scenes. I have looked at Windows object code of
                                                                    5
 5
          Which -- which happens often in a public setting.
                                                                             how it does this to figure it out. And what it does is
    Α.
 6
          So tell me the ways in which the loader then interacts
                                                                              it goes from that file-mapping into the virtual mapping
     0.
                                                                     6
 7
                                                                    7
          with this, using our example. We now have a DLL
                                                                              and does the fix-ups that the program needs to run,
                                                                    8
 8
          inject -- is it eject or injection? Inject file.
                                                                             basically mimicking Windows.
 9
                                                                    9
                                                                             So the loaders is inter- -- the loader is sitting on --
    A.
          Okay.
                                                                        0.
10
     Q. And how does the loader then interact with that in
                                                                    10
                                                                             again, let's -- we're talking about your -- this
11
                                                                   11
                                                                             example. It's sitting on the -- it was originally
          order to make it operable?
12
         We're still talking about my loader --
                                                                    12
                                                                              sitting on, in this example, Velocity Cheats's website,
   Α.
13
   Q. We're talking your loader?
                                                                   13
                                                                             but the user has downloaded it and it's actually
14
                                                                    14
                                                                              sitting on the user's --
    A.
15
    Q. And your -- I think we were talking about your
                                                                    15
                                                                             Hard drive.
                                                                       A.
16
          Call of Duty: Modern Warfare. That was the example,
                                                                   16
                                                                        Q.
                                                                             -- hard drive someplace. And then, so does the user --
          but --
17
                                                                   17
                                                                              the user then has the game running at the time that it
    A. Mine was really basic. The very simple part of it
                                                                   18
                                                                             needs to access -- that it wants to access the cheat
18
19
          is -- the first thing you do is you ask Windows for
                                                                   19
                                                                             file through the loader; right?
20
          access to the game's process. Say, "Hey, can I have a
                                                                    2.0
                                                                       Α.
                                                                             Yes.
21
          handle?" You tell it the permissions you want, and it
                                                                    21
                                                                             It has -- it won't work otherwise?
                                                                        0.
22
          gives you a handle without permission or it doesn't.
                                                                    22
                                                                        Α.
                                                                             In this case, yes.
23
          There's cases where it won't. So once you have a
                                                                    23
                                                                             Yes. Is there -- I mean, is there a world in which you
24
          handle with permission to read and write the game, you
                                                                    24
                                                                             would be able to open a cheat for a game without having
25
          then say, "Hey, Windows, give me some memory in the
                                                                    25
                                                                              the cheat of the game open -- the underlying game open?
```

Jordan William Green-Confidential 10/12/2022

```
Page 126
                                                                                                                          Page 127
         You could -- I know that methods exist to, like,
                                                                            object code directly, no.
 1
    A.
                                                                   1
 2
         essentially preload the cheat. And then the
                                                                   2 Q.
                                                                            Did you ever load it?
 3
         application that would be making the noise, the loader
                                                                   3 A. No.
 4
         could then be shut down. And then the user could start
                                                                       Q. Why not?
                                                                   4
 5
                                                                   5
                                                                       A. I don't generally use cheats from other developers. I
         the game.
 6
    Q. But --
                                                                   6
                                                                            used to before I learned how to code cheats, create
         But that's not -- that's not what I've done. That's
                                                                   7
                                                                            cheats. I found that the joy for me that came from
 8
         not what I did for Velocity Cheats. No.
                                                                   8
                                                                            essentially cheating in games wasn't the actual
 9
    Q. The user doesn't see anything with respect to the cheat
                                                                   9
                                                                            "running around the game killing everyone" thing.
10
         until there's -- until the game is running?
                                                                  10
                                                                            Yeah. That gets old after a while. For me, it was the
                                                                  11
11
    A.
                                                                            process of building the cheat.
12
                                                                  12
                                                                                 So I've recently -- in the last few years, have
    Q. In either of those methods, yours or the other one that
13
         you described that you didn't use?
                                                                  13
                                                                            rewritten an old cheat that I used to play with. And I
14
   A. Yeah. Much like the in-game components of Steam or
                                                                  14
                                                                            haven't even played the game. I've just been
15
         Discord -- wouldn't be available until the game would
                                                                  15
                                                                            playing -- poking around the cheat, testing it in,
16
                                                                   16
                                                                            like, a little -- with a bot and then going -- and so
17
    Q. All right. Do you have -- are you familiar with the
                                                                  17
                                                                            that's the reason why I -- I don't use other people's
18
         cheat at issue in this litigation?
                                                                  18
                                                                            cheats. Because it's just -- that's not enjoyable for
19
                   MR. MANN: Object to the form.
                                                                  19
20
                   THE WITNESS: Can you be a little bit more
                                                                  20
                                                                       Q.
                                                                            Did you -- you described earlier how you would
21
         specific by what you mean by "familiar"?
                                                                  21
                                                                            essentially vet cheats before you offered them from
22
   Q. BY MR. RAVA: Have you had access to the cheat that's
                                                                  22
                                                                            AimJunkies in order to ensure that they weren't simply
23
         at issue in this litigation?
                                                                   23
                                                                            malware. Did you do that with this one?
   A. At one point, it was available if I wanted to load it,
                                                                  2.4
                                                                      A. No.
25
         but I never had access to the cheat -- the code or the
                                                                           Why not?
                                                        Page 128
                                                                                                                          Page 129
 1 A. I hadn't done that in a while. I believe that the
                                                                       A. Not that I remember.
                                                                   1
                                                                            Do you have -- did you communicate with Mr. Conway
 2
         cheat was offered sometime in the end of 2019. I think
                                                                   2
 3
         that I had fallen out of practice of that before then.
                                                                            about Banek outside of this litigation?
                                                                   3
    Q. Did someone else?
 4
                                                                      A. I don't believe so.
                                                                            Did you communicate with Mr. Schaefer about Banek in
 5
    A. Not that I know of.
                                                                   5
 6
    Q. Are you aware of other cheats offered by whoever
                                                                            the course of the acquisition of this cheat?
                                                                   6
 7
         developed this one?
                                                                       A. Not that I can remember.
 8
                                                                   8
                   MR. MANN: Object to the form.
                                                                       Q. Or since the acquisition of this cheat, but outside of
 9
                   THE WITNESS: I don't know.
                                                                   9
                                                                            the scope of this litigation?
10
    Q. BY MR. RAVA: Do you know who developed the Destiny 2
                                                                  10
                                                                       A. No. I don't think so.
11
         cheat that's the subject of this litigation?
                                                                  11
                                                                       Q. Did you have any -- are you aware of any communications
12
    A. I've been made aware through the course of the
                                                                  12
                                                                            related to customer inquiries or customer service
13
         litigation.
                                                                  13
                                                                            requests relating to the Destiny 2 cheat?
   Q. And what's your understanding?
                                                                  14
                                                                            Well, the -- no. No. I don't think that those exist
14
15
    A. To my understanding, it was created by Banek.
                                                                  15
                                                                            anymore.
16
         And who -- what is your understanding of Banek?
                                                                  16
                                                                            Did they exist at one point?
17
    A. It's someone who we sold some cheat products from,
                                                                  17
                                                                            Yeah. There was a forum section, I believe, on the --
18
         and -- and I believe that they're -- that's my
                                                                            there was a section on the forum. There was a section
                                                                  18
19
         understanding of who Banek is.
                                                                  19
                                                                            for each cheat. And if that product becomes unviable
20
    Q. Do you have any understanding of whether they offered
                                                                  20
                                                                            or we're not selling it anymore, we'd have no need for
21
         any other cheats through AimJunkies?
                                                                  21
                                                                            the forum section anymore so we'd delete it.
                                                                      Q. Did you delete a forum section relating to the
22
   A. I don't know.
                                                                  22
23
    Q. Did you have any communications yourself with Banek?
                                                                  23
                                                                            Destiny 2 cheat, then?
24
                                                                  24
                                                                     A. I did not.
   A. No.
25
   Q. None at all?
                                                                  25
                                                                      Q. Did someone?
```